





NOTES Line post, blocks and hardware to be used are shown on Standard Plans A77A1, A77A2, A77B1, A77C1 and A77C2.

5. Direction of adjacent traffic indicated by

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See Note

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TYPE I6L LAYOUT (GUARD RAILING INSTALLATION AT ROADSIDE FIXED OBJECT OR OBJECTS WITH A BURIED END ANCHOR TREATMENT AND A FLARED END TREATMENT AT THE ENDS OF RAILING) See Note 9

6. In-line Terminal System End Treatments are used where site conditions will not

7. The type of terminal system to be used will be shown on the Project Plans.

Layout Types 16D through 16L, shown on the A776 Series of Standard Plans, are typically used where guard railing is recommended to shield roadside fixed object(s) and a croshworthy end

treatment is required for both directions of traffic. See Railing

8. As site conditions dictate, construct additional guard railing to shield fixed

object(s). Additional quard railing length equal to multiples of 3.8 m. Post

2. Guard railing post spacing to be 1905 mm center to center, except as otherwise noted.

- 3. Except as noted, line posts are 150 mm x 200 mm x 1.83 m wood with 150 mm x 200 mm imes 360 mm wood blocks. MW 150 imes 14 steel posts, 1.83 m in length, with 150 mm x 200 mm x 360 m notched wood blocks or plastic blocks may be used for 150 mm x 200 mm x 1.83 wood posts with 150 mm x 200 mm x 360 mm wood blocks where applicable and when specified.
- 4 A 1.2 m minimum clearance is required between the face of the railing and the A 1.2 in infilling clear date is required between the face of the failing and the face of a fixed object located directly behind guard railing with post spacing at 1905 mm. Construct guard railing as shown in the detail "Strengthened Railing Sections for Fixed Objects" on this plan, where the clearance between the face of the railing and the face of a fixed object is less than 1.2 m, but not less than 685 mm. Where the clearance is less than 685 mm, a concrete wall or barrier should be constructed to shield the fixed object(s).
 - Case 8 in Diagram No. 5 on Standard Plan A77D1. 10. Where placement of dike is required with guard railing, see Standard Plan A77C4 for dike positioning details.

spacing at 1905 mm, except as specified in Note 4.

accommodate a flared end treatment.

- on the edge of the paved shoulder or offset line of edge of the traveled way. The length of guard railing within the 15:1 or flatter flare is based on site conditions and should be a length equal to multiples of 3.8 meters.
- 12. For details of Buried Post End Anchor details, see Standard Plan A7712.
- 13. For typical flare offsets for 7.6 m length parabola with maximum offset of 305 mm, see Standard Plan A77E1.

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

METAL BEAM GUARD RAILING TYPICAL LAYOUTS FOR ROADSIDE FIXED OBJECTS

NO SCALE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

A77G8